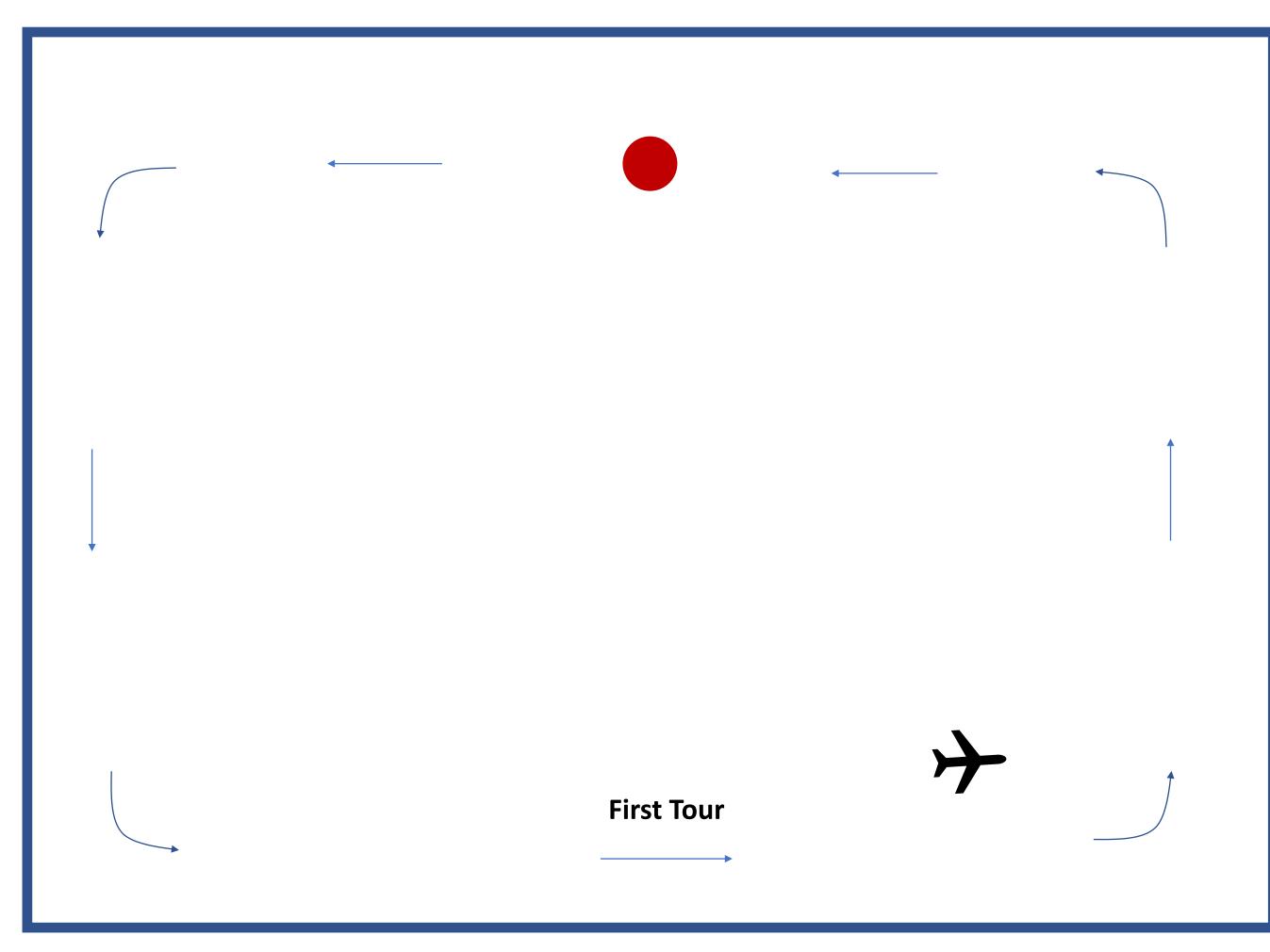
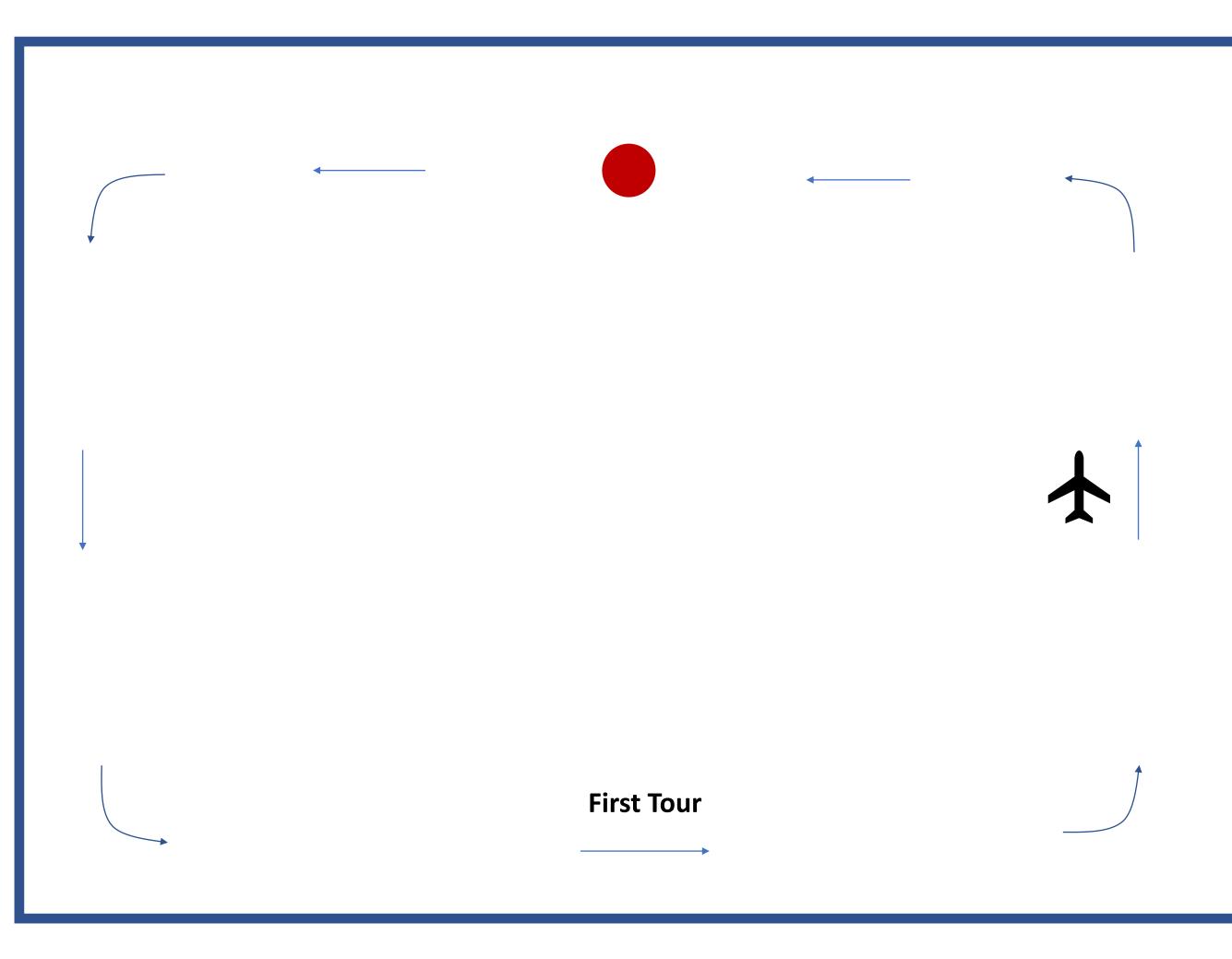
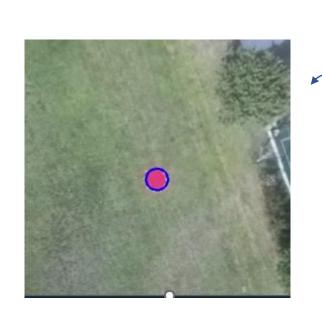




**First Tour** 







When the circle is detected in the first tour, the camera is closed becuase there is no need to use it anymore.

Also, the distance needed to release the balls is determined by using the current altitude, latitude, longitude and speed values of the UAV.

**First Tour** 



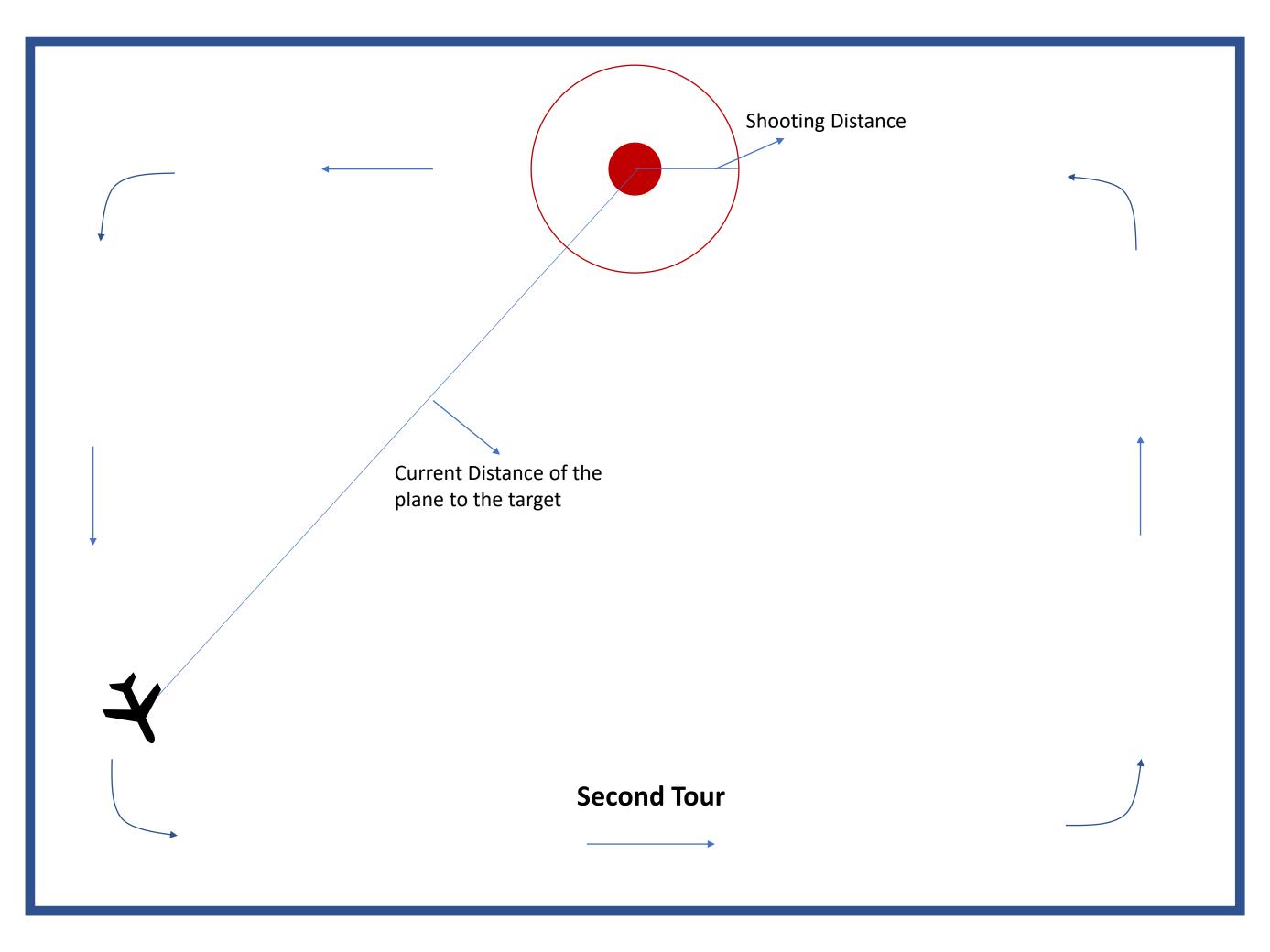
Small blue point represents the point the balls must be released to hit the target.

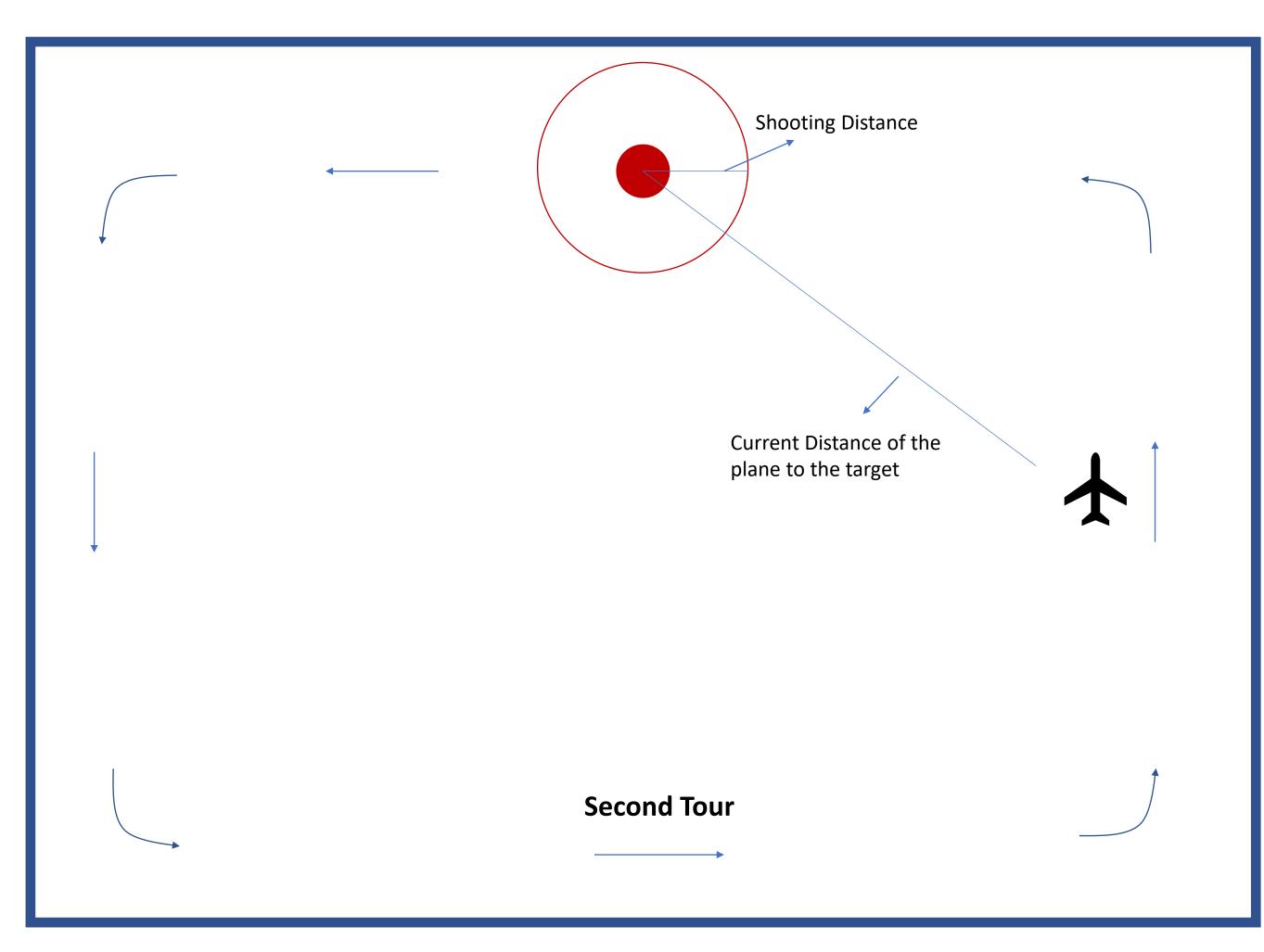
But, for conveniece, we do not try to reach the blue point because it may be hard for UAV to fly through just this small area.

Instead, we release the balls when we become closer to the target than the shooting distance.

In other words, we create an imaginary circle.

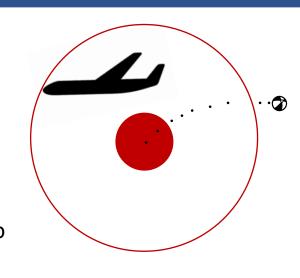
## **Second Tour**







**Second Tour** 



After first shooting, we stop checking the gps values until we go out from the range.

**Second Tour** 

